**Physical Science The Periodic Table (Chapter 10 Outline)**

*Vocabulary*: Define in your own words

Periodic table-

Group-

Period-

Ductility-

Malleability-

Luster-

Alkali metals-

Alkaline Earth metals-

Transition elements-

Nonmetals-

Metalloids-

Semiconductors-

Halogens-

Noble gases-

**Briefly describe the following concepts:**

How are elements arranged on the periodic table? Explain. (2 pts)

What can you learn about elements from the periodic table? Be specific in your explanation (2 pts)

What elements are metals? How are alkali, alkaline earth, and transition metals different? Explain the properties of metals in general and the unique properties of alkali, alkaline earth, and transition metals. Be specific in your explanation. (4 pts)

Where are metalloids and nonmetals on the periodic table? Explain. (2 pts)

What are the properties of nonmetals and metalloids? How are they similar and different? Describe their unique chemical and physical properties for full credit. (4 pts)

What is the difference between a halogen and a noble gas? Be specific and reference the chemical and physical properties for each group of elements. (4 pts)

***ABOUT THE READING:***

Write three things that you learned about the Periodic Table*:*

***Make sure to write a full sentence.***

*Example: I learned that alkali metals are in the first column of the periodic table, but does not include hydrogen.*

*1.*

*2.*

*3.*

**ASSIGNED WORK:**

*If you had to make an argument for one, and only one element, as your “favorite” or most meaningful element, which one would it be? Explain the unique characteristics that make this element interesting to you in a short paragraph. Please cite your resource you use to find information on the element. (6 pts)*